

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: February 24, 2004

In the Claims:

1. (ORIGINAL) An interface device for a communications system comprising:

a proxy operative as an agent for communicating with a plurality of mobile wireless devices using different operating protocols; and

a device information module operative with the proxy for determining functional features of a wireless mobile communications device and selecting a configuration file for configuring the proxy to interface with the wireless mobile communications device and enable communications of any desired alerts.

2. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, wherein said device information module is operative for determining functional features of the wireless mobile communications device by intermediate proxies and header information.

3. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, wherein said device information module is operative for determining which functional features are enabled for different wireless mobile communications devices.

4. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, and further comprising a configuration file database operative with said device information module for storing configuration files used

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: February 24, 2004

for configuring the proxy based on functional features of the wireless mobile communications device.

5. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, wherein said device information module is operative for determining the brand of the wireless mobile communications device.

6. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, and further comprising a knowledge database for storing data relating to functional features of different wireless mobile communications devices.

7. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 6, wherein said database includes data relating to the device type and brand of different wireless mobile communications devices.

8. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 6, wherein said database includes data relating to unknown devices used for selecting a default configuration.

9. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, wherein said device information module is operative for selecting a default configuration for unknown devices.

In re Patent Application of:
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Serial No. 10/785,657
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10. (CURRENTLY AMENDED) ~~A communications system~~
An interface device according to Claim 1, wherein said data storage devices comprise servers that store email messages.

11. (ORIGINAL) A communications system comprising:
a plurality of data storage devices each using at least one of a plurality of operating protocols;
a wireless mobile communications device for accessing at least one of said plurality of data storage devices; and
an interface device comprising
a protocol engine module for communicating with said plurality of data storage devices using respective operating protocols,
a proxy coupled to said protocol engine and operative as an agent for communicating with said plurality of mobile wireless devices using at least one different operating protocol, and
a device information module operative with said proxy for determining functional features of a wireless mobile communications device and selecting a configuration file for configuring the proxy to interface with the wireless mobile communications device and enable communications of any desired alerts.

12. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining functional features of the wireless mobile communications device by intermediate proxies and header information.

In re Patent Application of:
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13. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining which functional features are enabled for different wireless mobile communications devices.

14. (ORIGINAL) A communications system according to Claim 11, and further comprising a configuration file database operative with said device information module for storing configuration files used for configuring the proxy based on determined functional features of the wireless mobile communications device.

15. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining the brand of the wireless mobile communications device.

16. (ORIGINAL) A communications system according to Claim 11, and further comprising a knowledge database for storing data relating to functional features of different wireless mobile communications devices.

17. (ORIGINAL) A communications system according to Claim 16, wherein said database includes data relating to the device type and brand of different wireless mobile communications devices.

18. (ORIGINAL) A communications system according to Claim 16, wherein said database includes data relating to unknown devices used for selecting a default configuration.

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: February 24, 2004

19. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for selecting a default configuration for unknown devices.

20. (ORIGINAL) A communications system according to Claim 11, wherein said data storage devices comprise servers that store email messages.

21. (ORIGINAL) A method of communicating with a wireless mobile communications device comprising the steps of:
receiving communications from a wireless mobile communications device;
determining functional features of the wireless mobile communications device;
selecting a configuration file; and
configuring a communications interface with the wireless mobile communications device based on the determined functional features to enable communications of any desired alerts to the wireless mobile communications device.

22. (ORIGINAL) A method according to Claim 21, and further comprising the step of determining functional features of the wireless communications device by reviewing intermediate proxies and header information received from the wireless mobile communications device.

23. (ORIGINAL) A method according to Claim 21, and further comprising the step of maintaining a knowledge

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: February 24, 2004

database for determining functional features of the wireless mobile communications device.

24. (ORIGINAL) A method according to Claim 21, and further comprising the step of configuring a WAP gateway through which alerts are sent to the wireless mobile communications device.

25. (ORIGINAL) A method according to Claim 21, wherein the step of determining functional features of the wireless mobile communications device comprises the step of identifying the brand of the wireless mobile communications device.

26. (ORIGINAL) A method according to Claim 25, and further comprising the step of matching a communications template with the brand of the wireless mobile communications device.

27. (ORIGINAL) A method according to Claim 21, and further comprising the step of selecting a device configuration file for configuring the communications interface and enabling communication of desired alerts to the wireless mobile communications device.

28. (ORIGINAL) A method according to Claim 21, and further comprising the step of selecting a default configuration file when a wireless mobile communications device is unrecognized.

In re Patent Application of:

CLARKE ET AL.

Serial No. 10/785,657

Filing Date: February 24, 2004

29. (ORIGINAL) A method according to Claim 21, and further comprising the step of storing information regarding the wireless mobile communications device for future processing when further features of a wireless mobile communications device are obtained.

30. (ORIGINAL) A method according to Claim 21, and further comprising the step of matching a configuration file with the functional features of the wireless mobile communications device.

31. (ORIGINAL) A method according to Claim 30, and further comprising the step of loading the configuration file within a device information module of a proxy after determining functional features of the wireless mobile communications device.

32. (ORIGINAL) A method of communicating with a wireless mobile communications device comprising the steps of:
receiving communications from a wireless mobile communications device;

determining the functional features of the wireless mobile communications device based on header information and intermediate proxies;

loading a configuration file selected from a configuration database to configure a communications interface with the wireless mobile communications device based on the determined functional features to enable communications of any desired alerts to the wireless mobile communications device;
and

In re Patent Application of:
CLARKE ET AL.
Serial No. **10/785,657**
Filing Date: **February 24, 2004**

obtaining and storing new data regarding functional features of wireless mobile communications devices.

33. (ORIGINAL) A method according to Claim 32, and further comprising the step of determining functional features of a wireless mobile communications device by interpreting client, brand and gateways.

34. (ORIGINAL) A method according to Claim 32, and further comprising the step of configuring a WAP gateway for sending alerts to the wireless mobile communications device.

35. (ORIGINAL) A method according to Claim 32, wherein the step of determining functional features of the wireless mobile communications device comprises the step of identifying the brand of the wireless mobile communications device.

36. (ORIGINAL) A method according to Claim 35, and further comprising the step of matching a communications template with the brand of the wireless mobile communications device.

37. (ORIGINAL) A method according to Claim 32, and further comprising the step of selecting a device configuration file for configuring the communications interface and enabling communication of desired alerts to the wireless mobile device.

38. (ORIGINAL) A method according to Claim 32, and further comprising the step of selecting a default

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: February 24, 2004

configuration file when a wireless mobile communications device is unrecognized.

39. (ORIGINAL) A method according to Claim 32, and further comprising the step of storing information regarding the wireless mobile communications device for future processing when further features of the wireless mobile communications device are obtained.

40. (ORIGINAL) A method according to Claim 32, and further comprising the step of matching a correct configuration file with the functional features of the wireless mobile communications device.

41. (ORIGINAL) A method according to Claim 40, and further comprising the step of loading the correct configuration file using a device information module of a proxy after determining functional features of the wireless mobile communications device.

42. (ORIGINAL) A computer-readable medium for interfacing at least one wireless mobile communications device and a data storage device comprising:

a proxy module operative as an agent for communicating with said plurality of mobile wireless communications devices using at least one different operating protocol; and

a device information module operative with the proxy module for determining functional features of a wireless communications mobile communications device and selecting a configuration file for configuring the proxy module to

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Serial No. 10/785,657
Filing Date: February 24, 2004

interface with a wireless mobile communications device and enabling communications of any desired alerts.

43. (ORIGINAL) A computer-readable medium according to Claim 42, and further comprising a protocol engine module for communicating with a plurality of data storage devices using respective operating protocols.

44. (ORIGINAL) A computer-readable medium according to Claim 42, and further comprising a device information module operative for determining what functional features are enabled for different wireless mobile communications devices.